

# August 2013 – Climate Summary Southwest Lower Michigan



#### Below Normal Temperatures Below Normal Precipitation West of U.S. 131

Location		Average Temperature (°F)	Precipitation (inches)
Grand Rapids	Observed	70.1	1.90
	Normal	70.8	3.59
	Above/Below Normal	- 0.7	- 1.69
Lansing	Observed	69.2	4.77
	Normal	69.8	3.23
	Above/Below Normal	- 0.6	+ 1.54
Muskegon	Observed	69.5	1.94
	Normal	69.9	3.39
	Above/Below Normal	- 0.4	- 1.45

#### **Climate Facts**

August 2013

ZERO 90° Days at Lansing and

Muskegon; just 1 day at or

above 90 at Grand Rapids

3.39": Daily rainfall record set at Lansing on 08/27/13.

Previous record had stood since August 27, 1869

Aug. 1-19: Grand Rapids and Muskegon both just had 1 day with an average temperature above normal; Lansing had 2 days warmer than normal





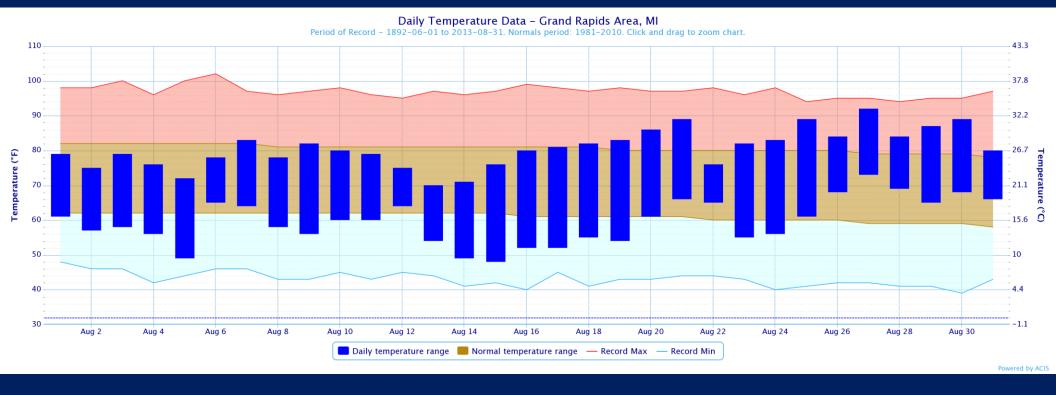






## August 2013 – Daily Temperature Graph Grand Rapids, MI





In this graph, the vertical blue bars represent the daily temperature range at Grand Rapids during August 2013. The top of the blue bar is the daily high, and the bottom of the blue bar is the daily low. The red line at the top is the record maximum temperature for each date. The blue line at the bottom is the record minimum temperature for each date. The light brown area represents the normal daily temperature range, based on climatological normals from 1981-2010. This is a good graphical depiction of the relatively cool start to August. The heat clearly ramped up on August 25<sup>th</sup> and continued through the last week of the month.





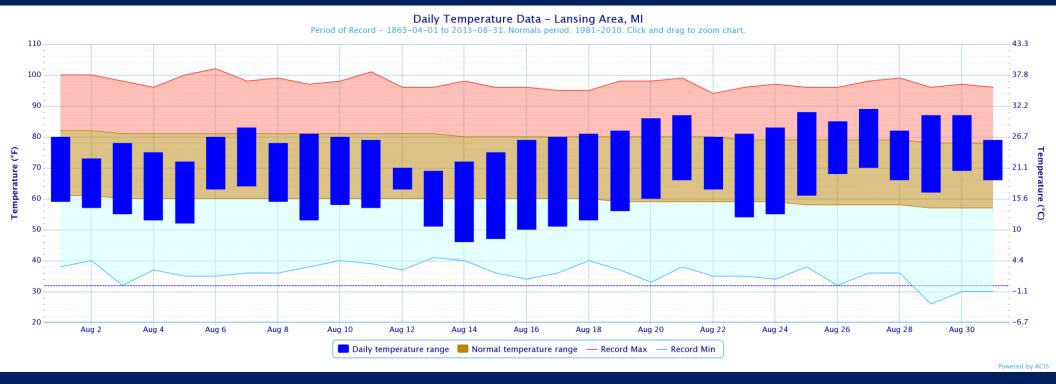






### August 2013 – Daily Temperature Graph Lansing, MI





In this graph, the vertical blue bars represent the daily temperature range at Lansing during August 2013. The top of the blue bar is the daily high, and the bottom of the blue bar is the daily low. The red line at the top is the record maximum temperature for each date. The blue line at the bottom is the record minimum temperature for each date. The light brown area represents the normal daily temperature range, based on climatological normals from 1981-2010. This is a good graphical depiction of the relatively cool start to August. The heat clearly ramped up on August 25<sup>th</sup> and continued through the last week of the month.







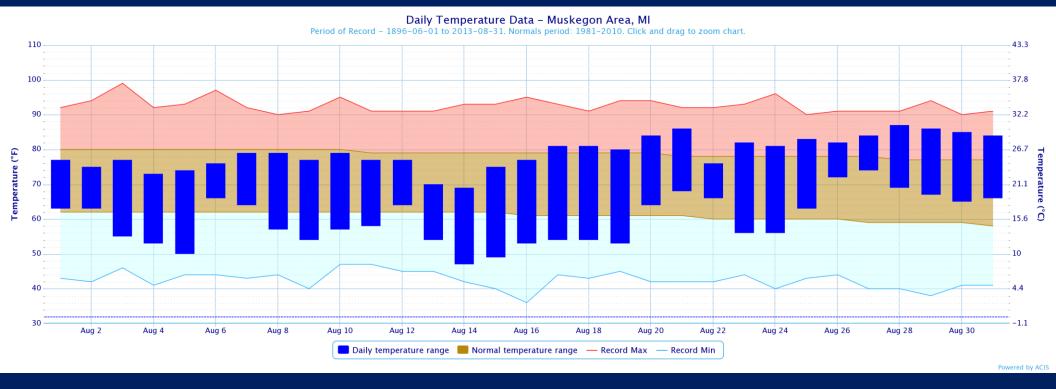






### August 2013 – Daily Temperature Graph Muskegon, MI





In this graph, the vertical blue bars represent the daily temperature range at Muskegon during August 2013. The top of the blue bar is the daily high, and the bottom of the blue bar is the daily low. The red line at the top is the record maximum temperature for each date. The blue line at the bottom is the record minimum temperature for each date. The light brown area represents the normal daily temperature range, based on climatological normals from 1981-2010. This is a good graphical depiction of the relatively cool start to August. The heat clearly ramped up on August 25<sup>th</sup> and continued through the last week of the month.







